

November 4, 2022

Tabetha Lynch Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203

RE: Peabody Sage Creek Mine, Permit C-2009-087, Fourth Quarter 2022 IIR

CDRMS-

In accordance with Rule 4.05.9(17), please find enclosed the Peabody Sage Creek Mine (PSCM) Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL). Please contact me with any comments and/or questions.

Best regards,

Miranda Kawcak Environmental Manager Peabody, Colorado Operations

Enclosure: PSCM 4Q22 IIR

	PERIODIC INSPECTION FORM: Water, Se	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 10/20/22			
NPE	DES I.D. NO.: CO-0048275 D.P. 002				
FAC	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 9/1	14/22		
SITE	E NAME: Wadge Impoundment #002	LOCATION: NW¼ NE¼, Sec.	2, T5N, R	87W	
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Hay	yden, CO	1	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	wcak			
	CIRCLE OR WRITE IN APPROPRIATE RESP	ONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops	oil:			х
2	Lift thickness:				х
3	Compaction according to approved plan:				х
4	Burning (specify extent and location):				х
5	Angle of slope:upstream,downstream		Tot	tal = N/A	1
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:		_		х
	Over widespread areas:				х
	From downstream foundation area:				х
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
_	Cracks or scarps on slope:				х
	Sloughing or bulging on slope:				х
_	*Major erosion problems:			х	
	Surface movements in valley bottom or on hillside:			х	
	*Erosion of toe:				х
	*Water impounded against toe:				х
	Existing embankment freeboard: 0 FT				
15		'ILLWAY	 1		
	Cracks, bulging, or erosion on upstream face:				х
	Visible sumps or sinkholes in slurry surface:				х
18	55 5		· · · · · ·		1
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:			х	
19	3 11		 		
	Spillway pipes:				х
	Decant system:				Х
	Trash racks clear and in place:				Х
_	Discharge rate: 19.1 GPM				
	ajor adverse changes in these items could cause instability and	-	_		ier
	l Mine Superintendent for further evaluation. Adverse conditio cribed (extextent, location, volume, etc.) here: DISCHARGE W				F
	EDS SEALED WITH BENTONITE.	ATERTEOWING ONDER TIET	LD I LOIVI	L. I LOIVI	_

	PERIODIC INSPECTION FORM: Water, Se		nents		
	PECTOR'S NAME: Jason Herden	DATE: 10/20/22			
	DES I.D. NO.: CO-0048275 D.P. 003				
	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 9/1			
	E NAME: Shop Pond #003	LOCATION: SE¼ SW¼, Sec. 2			
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	-		
MII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			
	CIRCLE OR WRITE IN APPROPRIATE RESP		YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops	oil:	X		
	Lift thickness: 12 IN				1
3	Compaction according to approved plan:		Х		
	Burning (specify extent and location):			X	
	Angle of slope: 2:1 upstream, 3:1 downstream		To	tal = 5:1	
6	*Seepage (specify location, color, and approximate volume)				1
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			Х	
	Over widespread areas:			Х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
	Cracks or scarps on slope:			X	
9	Sloughing or bulging on slope:			x	
10	*Major erosion problems:			x	
	Surface movements in valley bottom or on hillside:			x	
12	*Erosion of toe:			x	
13	*Water impounded against toe:			X	
	Existing embankment freeboard (4.9 is normal): 5.4 FT				
15	Increase Decrease in water level: 0.4 FT BELOW	SPILLWAY			
	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			x	
	Decant system:				х
	Diversion ditches:			x	
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:		x		
21	Discharge rate: 0 GPM				
ana des	ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here: RODENT BURRERABLE BY HAND BUT NEEDS REPLACED.	ns noted in these items shou	ld norma	lly be	

INIC	PERIODIC INSPECTION FORM: Water, Se		nents		
	PECTOR'S NAME: Jason Herden	DATE: 10/21/22			
	DES I.D. NO.: N/A	DATE LAST INSPECTION OF	/		
	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 9/1		20214	
	E NAME: Spill Control Pond #2	LOCATION: NW% NE%, Sec.			
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	-	<u> </u>	
IVIII	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			
	CIRCLE OR WRITE IN APPROPRIATE RESP		YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops	oil:	х		
	Lift thickness: N/A			1	ı
	Compaction according to approved plan:				х
	Burning (specify extent and location):				х
	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)	-		ı	
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
### Property Proper	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			x	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			x	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard (7.0 is normal when dry): 7 F	Т			
15	Increase Decrease in water level: DRY				
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 0 GPM				
ana	ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition Cribed (extextent, location, volume, etc.) here:				ger ger

	PERIODIC INSPECTION FORM: Water, Se		nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 10/21/22			
NPI	DES I.D. NO.: N/A				
FAC	CILITY CONFIGURATION: Final Pit Impoundment	DATE LAST INSPECTION: 9/1	14/22		
SITI	E NAME: Pecoco Reservoir	LOCATION: SW¼ NW¼, Sec.	. 2, T5N, I	R87W	
MII	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Have	yden, CO	١	
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RESI	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops	oil:	х		
2	Lift thickness: N/A				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope: <u>5:1</u> upstream, <u>2:1</u> downstream		То	tal = 7:1	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			x	
7	Cracks or scarps on crest:			x	
8	Cracks or scarps on slope:			x	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			x	
11	Surface movements in valley bottom or on hillside:			x	
12	*Erosion of toe:			x	
13	*Water impounded against toe:			x	
14	Existing embankment freeboard (6.1 is normal): 6.1 FT				
15	Increase Decrease in water level: 0.05 FT ABOVE S	PILLWAY			
	Cracks, bulging, or erosion on upstream face:			х	
	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				X
19	*Cracking or crushing of pipes	1			
	Spillway pipes:			х	
	Decant system:				Х
_	Trash racks clear and in place:				Х
	Discharge rate: 51 GPM				
ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse conditio cribed (extextent, location, volume, etc.) here:	·	_		ger

INIS	PECTOR'S NAME: Jason Herden PECTOR'S NAME: Jason Herden	ediment, or Slurry Impoundn DATE: 10/21/22	nents		
	DES I.D. NO.: N/A	DATE: 10/21/22			
	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 9/1	1/22		
		-			
	•				
			YES	NO	NI/A
1			X	I NO	N/A
		ion.			
			x		
				N/A	
				11/7	
Ü					x
				х	-
				x	
	·			x	
				X	
7	·			X	
	•			X	
				X	
				X	
				x	
	-			x	
				x	
15	-	SPILLWAY			
		1		х	
					х
18	Cracks, bulging, or erosion on upstream face: Visible sumps or sinkholes in slurry surface:			<u> </u>	
				х	
					х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:		х		
21	Discharge rate: 49 GPM				
ana	Mine Superintendent for further evaluation. Adverse condition	-	_	-	ger

	PERIODIC INSPECTION FORM: Water, Se	ediment, or Slurry Impoundn	nents		
INS	SPECTOR'S NAME: Jason Herden	DATE: 10/21/22			
NPI	DES I.D. NO.: N/A				
FAC	CILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 9/1	4/22		
SITE	E NAME: Truck Wash Settling Pond	LOCATION: NW% NE%, Sec.	34, T6N	, R87W	
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CC)	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RESP	ONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops	;oil:	х		
2	Lift thickness: N/A				
3	Compaction according to approved plan:				х
4	Burning (specify extent and location):				х
5	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:				х
	Over widespread areas:				х
	From downstream foundation area:				х
l	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:				х
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard (5.0 is normal when dry): 5 F	Т			
15	Increase Decrease in water level: DRY				
16	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:		X		
	Discharge rate: 0 GPM				
ana	lajor adverse changes in these items could cause instability and d Mine Superintendent for further evaluation. Adverse conditio scribed (extextent, location, volume, etc.) here:		_		ıer

INIS	PECTOR'S NAME: Jason Herden PECTOR'S NAME: Jason Herden	ediment, or Slurry Impoundn DATE: 10/21/22	nents		
	DES I.D. NO.: N/A	DATE: 10/21/22			
	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 9/1	1/22		
	E NAME: Upper Sump	LOCATION: NW¼, Sec. 3, T5		1/7\\/	
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha			
	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka			
	CIRCLE OR WRITE IN APPROPRIATE RESI		YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, tops		Х	NO	IN/A
	Lift thickness:	ion.			
	Compaction according to approved plan:		x	l	I
	Burning (specify extent and location):			v	
	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)			11/7	
Ü	From underdrain pipes			l	х
	At isolated points on embanckement slopes			х	^
	At natural hillside:				
	Over widespread areas:			x	
	From downstream foundation area:		х	^	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			X	
	Cracks or scarps on slope:			X	
	Sloughing or bulging on slope:			X	
	*Major erosion problems:			X	
	Surface movements in valley bottom or on hillside:			X	
	*Erosion of toe:			X	
	*Water impounded against toe:			X	
	Existing embankment freeboard: 0 FT				
15	Increase Decrease in water level: 0.1 FT ABOVE S	PILLWAY			
	Cracks, bulging, or erosion on upstream face:			х	
	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging			<u>l</u>	
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes	•			
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:		х		
21	Discharge rate: 40 GPM				
*M ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse condition Cribed (extextent, location, volume, etc.) here:		_	-	ger

	PERIODIC INSPECTION FORM: Water, Se	ediment, or Slurry Impoundr	nents					
	PECTOR'S NAME: Jason Herden	DATE: 10/21/22						
NPI	DES I.D. NO.: N/A							
FAC	ACILITY CONFIGURATION: Diked Pond DATE LAST INSPECTION: 9/14/22							
SITI	E NAME: Portal Sump #1 (Upper North)	LOCATION: NW¼, Sec. 3, T5	N, R87V	V				
MI	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CO)				
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak					
	CIRCLE OR WRITE IN APPROPRIATE RESI	PONSE:	YES	NO	N/A			
1	Foundation preparation (removal of vegetation, stumps, tops	soil:	х					
2	Lift thickness = 12 IN							
3	Compaction according to approved plan:		х					
4	Burning (specify extent and location):			х				
5	Angle of slope:upstream,downstream			N/A				
6	*Seepage (specify location, color, and approximate volume)							
	From underdrain pipes				х			
	At isolated points on embanckement slopes				х			
	At natural hillside:				х			
	Over widespread areas:				х			
	From downstream foundation area:				х			
	"Boils" beneath stream or ponded water:			х				
7	Cracks or scarps on crest:				х			
8	Cracks or scarps on slope:				х			
9	Sloughing or bulging on slope:				х			
10	*Major erosion problems:			х				
11	Surface movements in valley bottom or on hillside:			х				
12	*Erosion of toe:				х			
13	*Water impounded against toe:				х			
14	Existing embankment freeboard:			•	•			
15	Increase Decrease in water level: 1.5 FT BELOW \$	SPILLWAY						
16	Cracks, bulging, or erosion on upstream face:				х			
17	Visible sumps or sinkholes in slurry surface:				х			
18	*Clogging							
	Spillway channels and pipes:			х				
	Decant system:				х			
	Diversion ditches:				х			
19	*Cracking or crushing of pipes							
	Spillway pipes:			х				
	Decant system:				х			
20	Trash racks clear and in place:				х			
21	Discharge rate: 0 GPM							
ana	ajor adverse changes in these items could cause instability and I Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here:	· · · · · · · · · · · · · · · · · · ·	_	_	iger			

INIS	PECTOR'S NAME: Jason Herden PECTOR'S NAME: Jason Herden	ediment, or Slurry Impoundn DATE: 10/21/22	nents		
	DES I.D. NO.: N/A	DAIL. 10/21/22			
	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 9/3	14/22		
	E NAME: Portal Sump #2 (Lower South)	LOCATION: NW¼, Sec. 3, T5		\/	
	NE NAME: Peabody Sage Creek Mine	LOCATION: NW2, Sec. 5, 13			
	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	-		
IVIII	CIRCLE OR WRITE IN APPROPRIATE RESP			NO	NI/A
1			YES	NO	N/A
	Foundation preparation (removal of vegetation, stumps, tops Lift thickness: 12 IN	on.	Х		
				l	1
	Compaction according to approved plan:		Х		
	Burning (specify extent and location):			X N/A	
5 6	Angle of slope: upstream, downstream			N/A	
O	*Seepage (specify location, color, and approximate volume)	T		I	Τ
	From underdrain pipes At isolated points on embanckement slopes				X
	At natural hillside:				X
					X
	Over widespread areas:				X
	From downstream foundation area:				Х
7	"Boils" beneath stream or ponded water:			Х	
	Cracks or scarps on crest:				Х
	Cracks or scarps on slope:				Х
	Sloughing or bulging on slope:				Х
	*Major erosion problems:			Х	
	Surface movements in valley bottom or on hillside: *Erosion of toe:			Х	
					X
	*Water impounded against toe:				Х
	Existing embankment freeboard:				
15	Increase Decrease in water level:	T		I	Τ
	Cracks, bulging, or erosion on upstream face: Visible sumps or sinkholes in slurry surface:				X
18					Х
10	*Clogging Spillway channels and pipes:				
	Decant system:			Х	
	Diversion ditches:				X
10	*Cracking or crushing of pipes				Х
19	Spillway pipes:				
	Decant system:			Х	
20	Trash racks clear and in place:				X
	Discharge rate: 0 GPM				Х
	ajor adverse changes in these items could cause instability and	I should be reported to the Fr	ain a arin	~ 1/~~~	~~~
ana	I Mine Superintendent for further evaluation. Adverse condition and the condition of the co	ns noted in these items shou	_		gC1

IMPOUNDMENT INSPECTION LOG

JOB DATA

JOB NAME: PEC Hydrologic Services	CLIENT: Peabody	JOB(s): 2021-095 (PSCM), 2021-096 (SCC)
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FLOW DA	ΤΑ						
SITE ID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	10.70.23	G.l	19.1	Flume looking under Hilter	У
003	Sage Creek	Sage Creek	10-20-22	-0.4		some animal busions, no flav	N
004	Sage Creek	Sage Creek	10-20-22	0.1	33,3	3	\sim
Lower Sump	Sage Creek	Sage Creek	10-31-55	0.05	49		N
PECOCO	Sage Creek	Sage Creek	12-17-0	0.05	51		N
Portal Sump 1	Sage Creek	Sage Creek	10-51-56	-1,5	_	No Flan	N
Portal Sump 2	Sage Creek	Sage Creek	10.51-56	_	_	NO Flow NOT Phyping	\sim
Spill Control 2	Sage Creek	Sage Creek	10-21-27	J		מוט	\mathcal{N}
Truck Wash	Sage Creek	Sage Creek	P-51-55	_		DCS	\mathcal{N}
Upper Sump	Sage Creek	Sage Creek	10-21-27	0.1	40		\sim
001	Seneca	Hayden Gulch	10-21-29	_	_	Dra	N
002	Seneca	Hayden Gulch	10-21-22		_	Dra	\mathcal{N}
005	Seneca	Seneca II West	10-20-23	-3,3	_	no Flow	N
006	Seneca	Seneca II West	10-20-23	0.1	31.7	sluft on S. side, no impact	N
009	Seneca	Seneca II West	10-20-28	-2.8	~	no Flow	N
015	Seneca	Seneca II West	10-20-22	0.5	_	no Flow	N
016	Seneca	Seneca II West	19-50-55	0.1	23.8		N
017	Seneca	Seneca II West	10-20-52	-0.3		no Flow	N
T-1	Seneca	Seneca II West	10-Ja-52	_	_	מין	N
T-18	Seneca	Seneca II West	10-50-36		_	DIT	N
T-2	Seneca	Seneca II West	10-50-33	_		กเร	N
T-20	Seneca	Seneca II West	10.20.22	_	_	Pry	N
T-22	Seneca	Seneca II West	6-20.27	-3,4	_	10 Fl-v	N
T-24	Seneca	Seneca II West	10-2-27	~	~	Din	N
T-25	Seneca	Seneca II West	10-20-26	<u> </u>	_	gene	N
T-26	Seneca	Seneca II West	10.20.22	-2,5	_	NO Flow	\sim



SITE ID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	6.2.27	-7.9	_	NO FLOW	N
T-3	Seneca	Seneca II West	6-50-63	-3,5		NO Flow NO Flow	N
T-5	Seneca	Seneca II West	6-20-23	-3.5	_	No Flow	N
010	Seneca	Yoast	10.20.23	-1,3	_	No Flow, outlet instal	У
011	Seneca	Yoast	10.21-22	~1.8	_	NO HOW	N
011A	Seneca	Yoast	10-20-27	-2.8		NO FLOW	\sim
012	Seneca	Yoast	10.50.55	0.1	37.1	- 10° - 10°	N
012A	Seneca	Yoast	10.20.28	-1,7	-	NO Flow	N
013	Seneca	Yoast	12-30-X	-1,5	~	NO FLOW	N
014	Seneca	Yoast	10-26-28	~ 1, le		NO Flow	N
ST-1	Seneca	Yoast	10.ध-ऽऽ	~		DIS	N

FIELD PERSONNEL: JH	FIELD PERSONNEL SIGNATURE:	
NOTES	· · · · · · · · · · · · · · · · · · ·	